CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of interacting with a hardware entity of a processing system, comprising:

receiving an optimized library via a network, the optimized library including at least one optimized routine for a to interact with the hardware entity of the processing system;

determining whether the optimized library corresponds to is suitable for use by an application executing on the processing system in response to a library load request by the application;

loading the optimized library into system memory of the processing system if the optimized library eerresponds to is suitable for use by the application, wherein the optimized routine is for use by the application to interact with [[a]] the hardware entity of the processing system; [[and]]

populating an entry point table with an entry point for the optimized routine if the optimized library is suitable for use by the application, the entry point referencing a location within the system memory of the optimized routine;

populating the entry point table with an entry point of a non-optimized routine of a non-optimized library if the optimized library is not suitable for use by the application, the non-optimized routine to interact with the hardware entity of the processing system; advertising entry points stored in the entry point table to the application; and

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invoking a routine referenced by the advertised entry point for the application to interact with the hardware entity of the processing system, wherein the advertised entry point corresponds to the optimized routine if the optimized library is suitable for use by the application and wherein the advertised entry point corresponds to the non-optimized

routine if the optimized library is not suitable for use by the application.

utilizing a non-optimized library bound to the application if the optimized library

does not correspond to the application, wherein the non-optimized library includes at

least one non-optimized routine for use by the application to interact with the hardwere

entity of the processing system.

2. (Original) The method of claim 1 wherein the optimized routine comprises

updated code for use by the application to increase interaction efficiency with the

hardware entity of the processing system.

3. (Original) The method of claim 1 wherein the receiving the optimized library

via the network comprises receiving the optimized library via the network during an

operating system ("OS") runtime of the processing system.

4. (Previously Presented) The method of claim 3, further comprising:

receiving an optimization header packet via the network; and

determining that the optimized library is suitable for the processing system based

on a module type field within the optimization header packet.

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- 5. (Previously Presented) The method of claim 4 wherein the module type field includes a globally unique identifier ("GUID") for determining that the optimized library is suitable for the processing system.
 - 6. (Original) The method of claim 4, further comprising:

ignoring other optimized libraries broadcast on the network if corresponding other optimization packets are determined to be unsuitable for the processing system based on the module type filed.

7. (Original) The method of claim 3, further comprising:

storing the optimized library to a nonvolatile storage device of the processing system; and

inserting a entry into a pointer table of the processing system, the entry pointing to the optimized library.

- 8. (Original) The method of claim 7 wherein the pointer table comprises one of a Secondary System Description Table ("SSDT") defined by an Advanced Configuration and Power Interface ("ACPI") and an Extensive Firmware Interface ("EFI") configuration table.
- 9. (Currently Amended) The method of claim 7 wherein determining whether the optimized library corresponds to is suitable for use by the application, comprises:

executing an optimization extension bound to the application, the optimization extension to request a load of the optimized library; and

querying the pointer table for the entry pointing to the optimized library stored within the nonvolatile storage device.

10. (Canceled)

11. (Original) The method of claim 9 wherein the optimized library is further

loaded into a user mode space of the processing system.

12. (Original) The method of claim 1 wherein the processing system comprises a

management module of a rack of blade servers, and further comprising forwarding the

optimized library to one or more of the blade servers via an out-of-band channel.

13. (Currently Amended) A machine accessible computer-readable storage

medium that provides instructions that, if executed by a machine, will cause the machine

to perform operations comprising:

identifying that an optimized library transmitted over a network is intended for

the machine, the optimized library including at least one optimized routine for

interacting with a hardware entity of the machine;

receiving the optimized library via the network;

determining whether the optimized library corresponds to is suitable for use by an application executing on the processing system in response to a library load request by the application;

loading the optimized library into system memory of the processing system if the optimized library corresponds to is suitable for use by the application;

populating an entry point table with an entry point for the optimized routine if the optimized library is suitable for use by the application, the entry point referencing a location within the system memory of the optimized routine;

populating the entry point table with an entry point of a non-optimized routine of a non-optimized library if the optimized library is not suitable for use by the application, the non-optimized routine to interact with the hardware entity of the processing system;

advertising entry points stored in the entry point table to the application; and

invoking a routine referenced by the advertised entry point for the application to interact with the hardware entity of the processing system, wherein the advertised entry point corresponds to the optimized routine if the optimized library is suitable for use by the application and wherein the advertised entry point corresponds to the non-optimized routine if the optimized library is not suitable for use by the application.

utilizing a non-optimized library bound to the application if the optimized library does not correspond to the application, wherein the non-optimized library includes at least one non-optimized routine for use by the application to interact with the hardware entity of the processing system; and

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advertising one of the non-optimized routine and the optimized routine for use by an application executing in a user mode space of the machine to interact with the hardware entity.

14. (Currently Amended) The machine-accessible computer-readable storage medium of claim 13 wherein identifying the optimized library, receiving the optimized library, and advertising the optimized library are to be performed during an operating system ("OS") runtime of the machine.

15. (Currently Amended) machine-accessible computer-readable storage medium of claim 14 wherein the optimized routine comprises updated code to increase interaction efficiency with the hardware entity of the machine.

16. (Currently Amended) The machine accessible computer-readable storage medium of claim 15 wherein the hardware entity comprises a processor of the machine.

17. (Currently Amended) The machine-accessible computer-readable storage medium of claim 13 wherein identifying that the optimized library transmitted over the network is intended for the machine further comprises performing operations, including:

receiving an optimization header packet via the network; and
determining that the optimized library is suitable for the machine based on a
module type field within the optimization header packet.

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18. (Currently Amended) The machine accessible computer-readable storage medium of claim 13, further providing instructions that, if executed by the machine, will cause the machine to perform further operations, comprising:

storing the optimized library to a nonvolatile storage device of the machine; and inserting an entry into a pointer table of the machine, the entry to point to the optimized library.

19. (Currently Amended) The machine-accessible computer-readable storage medium of claim 18, further providing instructions that, if executed by the machine, will cause the machine to perform further operations, comprising:

executing an optimization extension bound to the application, the optimization extension to request a load of the optimized library;

querying the pointer table for the entry pointing to the optimized library stored within the nonvolatile storage device; and

loading the optimized library into the user mode space of the machine.

20. (Currently Amended) A processing system, comprising: a processor;

a network link communicatively coupled to the processor; and

a storage device communicatively coupled to the processor, the storage device including instructions which when executed by the processor perform operations, comprising:

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monitoring traffic on the network link for an optimized library including at least one optimized routine intended for <u>interacting with a hardware entity of</u> the processing system;

receiving the optimized library via the network link;

determining whether the optimized library eorresponds to is suitable for use by an application executing on the processing system in response to a library load request by the application;

loading the optimized library into system memory of the processing system if the optimized library eorresponds to is suitable for use by the application;

routine if the optimized library is suitable for use by the application, the entry

point referencing a location within the system memory of the optimized routine;

populating the entry point table with an entry point of a non-optimized routine of a non-optimized library if the optimized library is not suitable for use by the application, the non-optimized routine to interact with the hardware entity of the processing system;

advertising entry points stored in the entry point table to the application;

invoking a routine referenced by the advertised entry point for the
application to interact with the hardware entity of the processing system, wherein
the advertised entry point corresponds to the optimized routine if the optimized
library is suitable for use by the application and wherein the advertised entry

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point corresponds to the non-optimized routine if the optimized library is not suitable for use by the application.

utilizing a non-optimized library bound to the application if the optimized library does not correspond to the application, wherein the non-optimized library includes at least one non-optimized routine for use by the application to interact with the hardware entity of the processing system; and

advertising one of the non-optimized routine and the optimized routine to a user mode space of the processing system for use by an application to interact with a hardware entity of the processing system.

- 21. (Original) The processing system of claim 20 wherein the instructions are to be executed by the processing system during an operating system runtime of the processing system.
- 22. (Original) The processing system of claim 20 wherein execution of the instructions further performs operations comprising:

parsing an optimization header packet received via the network link; and recognizing whether the optimized library is intended for the processing system based on a module type field of the of the optimization header packet.

23. (Original) The processing system of claim 20 wherein the application includes an optimization extension to request a load of the optimized library upon execution of the application.

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- 24. (Original) The processing system of claim 20 wherein the hardware entity is the processor.
- 25. (Original) The processing system of claim 24 wherein the optimized routine comprises updated code for interacting with the processor in a more efficient manner.

26-30 (Canceled)